

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Canceled)
2. (Currently Amended) A magnetic tape recording apparatus ~~according to claim 1,~~
for recording digital data on a magnetic tape by using a rotary head, comprising:
first acquisition means for acquiring a first group of data including video data, audio data,
or search data, wherein the first group of data has a sector structure of a main data area storing
said video data, said audio data, or said search data and a sync block header identifying the type
of the main data;
second acquisition means for acquiring a second group of data including subcode data
related to said first group of data;
synthesizing means for synthesizing data by combining said first group of data and said
second group of data so that both groups of data are continuous on the tracks of said magnetic
tape without being separated; and
supply means for supplying the synthesized data to said rotary head so that the
synthesized data is recorded on said magnetic tape,
wherein~~[[:]]~~ said first acquisition means acquires high definition video data as said video data;

said first acquisition means further comprises compression means for compressing the high definition video data acquired by said first acquisition means; and

said synthesizing means performs combination processing on the high definition video data compressed by said compression means.

3. (Original) A magnetic tape recording apparatus according to claim 2, wherein said compression means compresses the high definition video data by using MP@HL or MP@H-14 in the MPEG system.

4. (Original) A magnetic tape recording apparatus according to claim 2, further comprising third acquisition means for acquiring compressed standard definition video data, wherein:

the high definition video data acquired by said first acquisition means includes identification information for identifying the high definition video data as the standard definition video data; and

said synthesizing means select either the high definition video data compressed by said compression means or the standard definition video data acquired by said acquisition means so that combination processing on the selected video data is performed.

5. (Currently Amended) A magnetic tape recording method for recording digital data on a magnetic tape by using a rotary head, comprising:

a first acquisition step for acquiring a first group of data including video data, audio data, or search data, wherein the first group of data has a sector structure of a main data area storing

said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second acquisition step for acquiring a second group of data including subcode data related to said first group of data;

a synthesizing step for synthesizing data by combining said first group of data and said second group of data so that both groups of data are continuous on the tracks of said magnetic tape without being separated; and

a supply step for supplying the synthesized data to said rotary head so that the synthesized data is recorded on said magnetic ~~tape~~tape.

wherein said first acquisition step acquires high definition video data as said video data; and further including a compression step for compressing the high definition video data acquired by said first acquisition step; and

said synthesizing step performs combination processing on the high definition video data compressed by said compression step.

6. (Currently Amended) A computer-readable recording medium containing a program executable by a processor for performing a method for controlling a magnetic tape recording apparatus ~~which~~that records digital data on a magnetic tape by using a rotary head, said ~~program~~method comprising:

a first acquisition step for acquiring a first group of data including video data, audio data, or search data, wherein the first group of data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second acquisition step for acquiring a second group of data including subcode data related to said first group of data;

a synthesizing step for synthesizing data by combining said first group of data and said second group of data so that both groups of data are continuous on the tracks of said magnetic tape without being separated; and

a supply step for supplying the synthesized data to said rotary head so that the synthesized data is recorded on said magnetic ~~tape~~ tape.

wherein said first acquisition step acquires high definition video data as said video data; and further including a compression step for compressing the high definition video data acquired by said first acquisition step; and

said synthesizing step performs combination processing on the high definition video data compressed by said compression step.

7. (Canceled)

8. (Original) A magnetic tape reading apparatus comprising:

a rotary head for reading a magnetic tape on which a first group of data including compressed high definition or standard definition video data, audio data, and search data, and a second group of data including subcode data related to said first group of data are continuously recorded on the tracks of said magnetic tape without being separated;

first decompression means for, among the data read from said magnetic tape by said rotary head, decompressing the compressed high definition video data;

second decompression means for, among the data read from said magnetic tape by said rotary head, decompressing the compressed standard definition video data;

detection means for, from the data read from said magnetic tape by said rotary head, detecting identification information for identifying either the high definition video data or the standard definition video data; and

selection means for selectively controlling, based on the result of detection by said detection means, one of said first decompression means and said second decompression means to process the data read from said magnetic tape by said rotary head.

9. (Original) A magnetic tape reading apparatus according to claim 8, wherein:
said first decompression means decompresses the high definition video data by using MP@HL or MP@H-14 in the MPEG system; and
said second decompression means decompresses the standard definition video data by using the digital visual format.

10. (Original) A magnetic tape reading method for a magnetic tape reading apparatus for reading, by a rotary head, a magnetic tape on which a first group of data including compressed high definition or standard definition video data, audio data, and search data, and a second group of data including subcode data related to said first group of data are continuously recorded on the tracks of said magnetic tape without being separated, said magnetic tape reading method comprising:

a first decompression step for, among the data read from said magnetic tape by said rotary head, decompressing the compressed high definition video data;

a second decompression step for, among the data read from said magnetic tape by said rotary head, decompressing the compressed standard definition video data;

a detection step for, from the data read from said magnetic tape by said rotary head, detecting identification information for identifying either the high definition video data or the standard definition video data; and

a selection step for selectively controlling, based on the result of detection by said detection step, one of said first decompression step and said second decompression step to process the data read from said magnetic tape by said rotary head.

11. (Currently Amended) A computer-readable recording medium containing a program executable by a processor for performing a method for controlling a magnetic tape reading apparatus ~~which~~ that uses a rotary head to read a magnetic tape on which a first group of data including compressed high definition or standard definition video data, audio data, and search data, and a second group of data including subcode data related to said first group of data are continuously recorded on the tracks of said magnetic tape without being separated, said ~~program~~ method comprising:

a first decompression step for, among the data read from said magnetic tape by said rotary head, decompressing the compressed high definition video data;

a second decompression step for, among the data read from said magnetic tape by said rotary head, decompressing the compressed standard definition video data;

a detection step for, from the data read from said magnetic tape by said rotary head, detecting identification information for identifying either the high definition video data or the standard definition video data; and

a selection step for selectively controlling, based on the result of detection by said detection step, one of said first decompression step and said second decompression step to process the data read from said magnetic tape by said rotary head.